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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/009,824	12/13/2001	Bruno Colin	BONN-069	6184
7590 07/16/2004			EXAMINER	
James C Lydon			NAGPAUL, JYOTI	
100 Daingerfield Road Suite 100 Alexandria, VA 22314			ART UNIT	PAPER NUMBER
,			1743	
			DATE MAILED: 07/16/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Cf

	Application No.	Applicant(s)				
Office Autieu Comment	10/009,824	COLIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jyoti Nagpaul	1743				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl of If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	<u>_</u> .					
2a) This action is FINAL . 2b) This	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under be	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 19-34 is/are pending in the applicatio	n.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
)⊠ Claim(s) <u>19-34</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/c	or election requirement.					
Application Papers	•					
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>13 December 2001</u> is/a	are: a)⊠ accepted or b)⊟ object	ed to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct		• • •				
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document)-(d) or (f).				
2. Certified copies of the priority document		on No				
3. Copies of the certified copies of the prior						
application from the International Burea		or in the Hatterian Stage				
* See the attached detailed Office action for a list		d.				
Attachment(s)	_					
1) Motice of References Cited (PTO-892) 2) Motice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da					
 Notice of Draitsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/13/01. 		atent Application (PTO-152)				

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Claim Interpretation

With respect to Claim 19, the applicant recites "for example a plane face" in line 8.

With respect to Claim 24, the applicant recites "such as an elastomer pin" and "such as a wedge" in lines 2 and 3, respectively.

With respect to Claim 26, the applicant recites "preferably a plurality of, valves of claim 19" and "preferably connected together in order to form a strip assembly" in lines 2 and 6, respectively.

With respect to Claim 28, the applicant recites, "preferably with spacing having values used in the field of electronics, such as 3.96mm, 2.54mm or 1.28mm" in line 3.

With respect to Claim 29, the applicant recites "such as electromagnets" in line 8.

Thus, in claims 19, 24, 26, 28, and 29, the phrases "for example", " such as", "preferably" are limitations and such language are not given any patentable weight because they are not considered limiting, only exemplary. If applicant wishes the limitations to be limiting, applicant must re-write the claim without the exemplary language.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 19,20,22 and 29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Regarding claim 19, the phrase "it" in Line 4 renders the claim indefinite and vague. The phrase should be replaced by the phrase - - the valve- -.

Regarding claim 20, the word "the" in Line 2 renders the claim indefinite and vague. The word should be replaced by - - a - -.

Regarding claim 22, the phrase "the faces concerned" in Line 3 renders the claim indefinite and vague. The phrase should be replaced by - - one of the two faces - -.

In regards to Claim 29, the claim is indefinite and vague which refers to claim 26. The intended use of the word "implemented" is unclear. It is unclear if applicant is claiming an implementation method whereas claim 26 is directed to a device: which is indefinite as to what is encompassed thereby or what is intended.

Regarding claim 32, the word "is" in Lines 1 and 3 renders the claim to be indefinite and vague. The word should be replaced by - - are - -.

Claim 33 recites the limitation "the maneuvering pins" in Claim 33 Line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

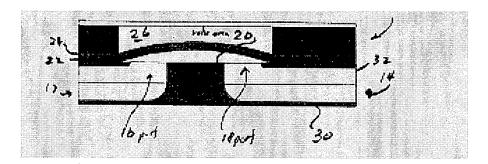
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 19-23, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moles in view of Maurer.

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Moles teaches a valve (10), crossed by at least one channel (12), allowing to direct at least one fluid displaced by transfer means within a test sample card, the card featuring two faces connected to one another by an edge. The valve comprises a flexible film, and/or which can be distorted, part of which is fixed to at least one of the faces of card which may be activated or deactivated. The securing of the film is made on at least one of the faces. The securing of the film (22) on the card is peripheral to a set of channels crossed by valve, namely at least one fluid entry channel and at least on fluid exit channel. The securing of the film is sealed peripheral to the valve. The film on the valve is in contact with the plane face of the card, when the valve is in closed position, and is lifted in relation to plane face, when the valve is in open position. (Refer to Figure 1. below and Figure 2)

Figure 1. Valve



Moles fails to teach the compression means acts on the film at the intersection point between at least one of the channels of the valve and the face concerned of the card. Moles also fails to teach the compression means features a closing means, such as an elastomer pin, and an opening and closing means, such as a wedge, which synergizes with actuation mechanisms.

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Maurer teaches a valve arrangement for film compression means. The valve arrangement includes a slider element, in which the one contact surface of the slider element closes a throughflow opening formed by a valve seat and an open position in which a throughflow passage formed in the slider element frees the throughflow opening. (Column 2, Lines 60-65) The slider element (6) acts as a means for compression. The compression means (6) can act on the film (2) at the intersection point between at least one of the channels of the valve and one of the faces of the card. The valve arrangement/compression means comprises a flexible tab and features closing and opening means.

It would have been obvious to one of the ordinary skill in this art at the time of the invention by applicant to modify the system of Moles to include the features of Maurer to provide the slider element for mechanical support to ensure closure of the valve by compression means.

With respect to claim 26-28, Moles fails to describe a sample card comprising least two, and preferably a plurality of valves, which are positioned side by side along an edge of said card, fully or partly distributed along at least one edge of said card, and provided with compression means dedicated to the compression of the valves, positioned side, which are preferably connected together order to form a strip assembly. Wherein two adjacent valves positioned side by side is separated by a space between 1 and 5 mm. Moles does not disclose a plurality of valves.

However, it would have been obvious to one of the ordinary skill in this art at the time of the invention by applicant to provide multiple valves arranged in an array

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formation. The case law states that mere duplication of parts has no patentable significance. See, In re Harza, 274 F.2d 669, 124 USPQ 378 (CCPA 1960). As to the arrangement being an array, it would have been obvious to provide an ordered arrangement of valves in order to provide them for use with other conventional laboratory apparatus, such as microtitre trays and microfluidic devices.

Allowable Subject Matter

3. Claims 29, 32, and 33 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

With respect to Claim 29, the prior art does not teach, nor fairly suggest a storage area, a valve opening and closing inspection area, and an intermediate area.

With respect to Claim 32, the prior art does not teach, nor fairly suggest a set of actuators mobile along an axis parallel to the plane.

With respect to Claim 33, the prior art does not teach, nor fairly suggest maneuvering pins.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jyoti Nagpaul whose telephone number is 571-272-1273. The examiner can normally be reached on Monday thru Friday (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JN

Supervisory Patent Examiner Technology Center 1700